



MANUFACTURING

A Water Treatment Program That Works and Repairs the Damage From One That Doesn't

Problem

The boiler – a 1000-hp tube unit – at a plywood manufacturing plant in the Pacific Northwest had scaled so badly that it had to be shut down after just a year and a half. As it turned out, even though treatment chemicals for the boiler were being mixed daily, the feed system was not working properly. But that wasn't all. To complicate matters, the boiler was running on hard water and there was no steam line treatment. Not surprisingly, the steam and condensate systems were in bad shape, with many leaks due to corrosion.

Solution

A Garratt-Callahan field representative found 16 plugged tubes in the boiler; fortunately, none had ruptured. But he also determined that the feed lines were plugged to the point that almost no water treatment chemicals were reaching the system. To restore the boiler, he undertook a high-pressure washing and flushing of the boiler tubes. Then he installed a water softener and a new chemical feed system, and implemented a new treatment program using four Garratt-Callahan products: Formulas 1156, 1154, 159, and 48. He instructed plant personnel in proper test procedures. Finally, he made operational recommendations to improve steam trap performance and increase the overall efficiency of the condensate return system.

Results

Together with the pressure washing, the Garratt-Callahan treatment program has reduced the boiler scale deposits to almost nothing, and no new deposits have formed. As a result, the plant is now saving \$30,000 a year in reduced fuel costs. In addition, the Garratt-Callahan water treatment program costs \$2,000 per year less than the previous, ineffective program.

Conclusion

With deep expertise and broad experience, Garratt-Callahan field representatives can mitigate problems caused by an inadequate water treatment plan – and replace it with a plan that prevents problems, saves you money, and often costs less.

Garratt-Callahan: Quality products and the best field representatives in the water treatment industry.